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14 MAR 1991

Mr. Mark Malinowski  
✓ California Department of Health Services  
Toxic Substances Control Division  
Region 2  
700 Heinz Avenue, Building F, Suite 200  
Berkeley, CA 94710

Mr. Malinowski:

Enclosure (1) is the Monthly Status Report for the month of February on the Remedial Investigation/Feasibility Study at the Naval Air Station, Alameda. Enclosures (2) and (3) are the minutes of the February 1991 Progress Review Meeting and the 11 February 1991 meeting on the hydrogeology study on the landfills respectively.

Thank you for your continued guidance and involvement in the IR program. Please direct any questions to Commander, Western Division, Naval Facilities Engineering Command (Attn: Ms. Bella G. Dizon, Code 1813BD, (415) 244-2551 or 2564).

Sincerely,

Original signed by:

RICHARD SERAYDARIAN  
Head, Installation Restoration Section

Enclosure:

- 1) Monthly Status Report - February 1991
- 2) Minutes of February 1991 Progress Review Meeting
- 3) Minutes of Meeting on the Hydrogeology Study at the Landfills on 11 February 1991.

Copy to: (w/ encl)

- NAS Alameda (Attn: Randy Cate)
- COMNAVBASE San Francisco (Attn: Randy Friedman)
- Regional Water Quality Control Board (Attn: Rico Duazo)
- National Oceanic & Atmospheric Administration (Attn: Chip Demarest)
- Bay Area Air Quality Management District (Attn: Scott Lutz/Brian Jennison)
- Department of the Interior (Attn: William C. Allan)
- California Department of Fish and Game (Attn: Mike Rugg)

Blind copy to: (w/ encl)

1813, 1813BD, 1813EG, Admin. Record  
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File: ALAMEDA/NAS

MONTHLY STATUS REPORT  
FEBRUARY 1991  
NAS ALAMEDA

1. **Progress During the Reporting Period:**

- Phase 5, RI/FS (SWAT) (CT0-85)

The locations and elevations of the ground-water monitoring wells were surveyed and tied into the State survey system. Water level measurements from the wells were collected on February 5 and 20, 1991.

J. M. Montgomery continued with data review and preparation of the draft report.

- Phase 5 and 6, RI/FS (SWAT) (CT0-107)

Boring locations for 34 shallow wells, 4 intermediate wells, and 6 deep wells around the landfills were marked by J. M. Montgomery.

J. M. Montgomery also researched different surface geophysical techniques to be conducted over the landfills.

Aerial photographs for preparation of the base map were obtained.

The analytical laboratory evaluation and recommendation has been completed and will be delivered to PRC in March for approval.

Three bid packages are in preparation, and include 1) bids for drilling, 2) bids for surface geophysics, and 3) bids for surveying.

PRC completed the hydrogeological study at the landfills. The well development study is in progress.

- Well Decommissioning (CTO-95)

Incorporating DHS comments in work plan.

- Phase 2B and 3, RI/FS (CTO-121)

Preparation of the work plan and cost estimate was completed and submitted to the Navy. Negotiations are scheduled for March 19, 1991.

## **2. Reports and Meetings:**

### **2.1 Meetings**

- On 11 February 1991, a meeting was held in San Bruno to discuss the hydrogeology at the landfills. It was tentatively decided to eliminate the installation of 30 intermediate ground-water monitoring wells from CTO No. 107. It was also tentatively decided to add 2 deep wells to the project, eliminate the installation of conductor casing in deep wells on the east side of the landfills, and to perform a geophysical survey over the landfills to interpret the stratigraphy.
- An RI/FS progress review meeting for NAS Alameda was conducted on 26 February 1991.

### **2.2 Reports**

- Phase 5, RI/FS (SWAT) (CTO-85)

None

- Phase 5 and 6, RI/FS (SWAT) (CTO-107)

None

- Well Decommissioning (CTO-95)

None

- Phase 2B and 3, RI/FS (CTO-121)

The work plan and cost estimate were submitted to the Navy on 18 February 1991.

**3. Problems Encountered and Resolutions:**

- Phase 5, RI/FS (SWAT) (CT0-85)

None

- Phase 5 and 6, RI/FS (SWAT) (CT0-107)

Waiting on NAS Alameda personnel to grade the trailer/staging area.

Waiting on BCDC for permission to drill well locations within 100 feet of the Bay. During the RI/FS progress review meeting on 26 February 1991, the Navy said that they may be exempt from BCDC regulations, and that drilling should proceed if the BCDC does not issue a permit to drill.

- Well Decommissioning (CTO-95)

None

- Phase 2B and 3, RI/FS (CTO-121)

None

**4. Reports Scheduled for March Submittal:**

- Phase 5, RI/FS (SWAT) (CT0-85)

Data analysis will be completed. The draft report, summarizing the installation of 12 ground-water monitoring wells, and analytical results from soil and ground-water samples, will be prepared by JMM and submitted to PRC for review.

- Phase 5 and 6, RI/FS (SWAT) (CT0-107)

J. M. Montgomery will prepare the Health and Safety Plan.

A draft report summarizing the hydrogeology at NAS Alameda will be completed. This report will recommend changes for the scope of work.

A draft report summarizing well development techniques used during CTO No. 85 will be completed.

- Well Decommissioning (CTO-95)

A Final Work Plan, including DHS comments, will be prepared.

- Phase 2B and 3, RI/FS (CTO-121)

No reports scheduled. Negotiations are scheduled for 19 March 1991.

**5. Planned Field Activities for March 1991:**

- Phase 5, RI/FS (SWAT) (CTO-85)

All field activities have been completed.

- Phase 5 and 6, RI/FS (SWAT) (CTO-107)

J. M. Montgomery will acquire contracts from the appropriate subcontractors and prepare for drilling activities. Drilling will begin towards the end of March.

- Well Decommissioning (CTO-95)

No field activities planned.

- Phase 2B and 3, RI/FS (CTO-121)

No field activities planned.

## **AGENDA**

### **PROGRESS REVIEW MEETING REMEDIAL INVESTIGATION/ FEASIBILITY STUDY NAVAL AIR STATION ALAMEDA**

**26 FEBRUARY 1991**

- 1. STATUS REPORT - RI FIELD WORK  
    PHASE 2A  
    PHASE 5 (SWAT)  
    PHASES 2B & 3**
- 2. CONSISTENCY DETERMINATION (BCDC)**
- 3. ABANDONEMENT OF EXISTING WELLS AT LANDFILLS**
- 4. PHASE 4 SCOPE**
- 5. REMOVAL ACTION AT "AIMD" SITE**
- 6. OTHERS**

PROGRESS REVIEW MEETING  
REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
NAVAL AIR STATION ALAMEDA

26 FEBRUARY 1991

<u>Personnel</u>	<u>Organization</u>	<u>Phone Number</u>
Kirk Switzer	PRC	(916)852-8300
Jeff Johnson	PRC	(916)852-8300
Steve Newton	J. M. Montgomery	(415)975-3400
Rico Duazo	RWQCB	(415)464-0837
Mark Malinowski	DHS	(415)540-3816
Bella Dizon	WESTDIV	(415)244-2564
Bernie Edrada	DHS	
Randy Cate	NAS Alameda	(415)263-3716

Minutes

Item 1 on Agenda

The Navy started the meeting by saying that Phase 2A is practically complete. All drums have been labeled. Canonie will review the analytical data. The scope of work for the data review will be prepared by the Navy by 15 March at the earliest.

J. M. Montgomery has completed all boring logs for the ground-water monitoring wells that were installed during CTO No. 85. Laboratory data generated from this field work will be analyzed by a J. M. Montgomery chemist. The report summarizing all work for CTO 85 will be completed in two weeks, then forwarded to PRC for review. The Navy will receive this report for review in the middle of April.

Modifications to the drilling contract and laboratory contract for CTO 107 have been finalized by J. M. Montgomery. PRC will receive these contracts for review in about two weeks. Shallow wells approved for CTO 107 will be installed with a hollow-stem auger rig, and deep wells will be installed with a dual-percussion rig. Four addenda to the Canonie work plan are also being prepared. The health and safety plan will be delivered to PRC for review in about 2 weeks. The DHS commented that the health and safety plan has to be equally stringent or more stringent

than the plan prepared by Canonie. Aerial photos have been obtained and base maps are being prepared. All base maps and boring logs will be stored in electronic format.

J. M. Montgomery is in the process of deciding which software package to use for storing analytical data. They would like find out what Canonie is using before making this decision. The Navy will contact Canonie to determine what software is being used for the data base. J. M. Montgomery and NAS Alameda will coordinate efforts on data base management for the project.

Field work for CTO 107 (Phase 5 of RI/FS) will begin tomorrow. Boring locations will be staked, and drilling is expected to begin in 3 to 4 weeks. Cuttings will be placed in barrels. Drums with hazardous cuttings will be taken to building 13. It has not been decided what to do with nonhazardous cuttings.

Negotiations for Phase 2B and 3 (CTO 121) will be conducted on March 19, 1991. The work for these phases should be awarded by the Navy by the end of March. It is expected that field work will begin at the end of April.

#### Item 2 on Agenda

After meeting with their lawyer and environmental planners, the Navy claims they are exempt from having to obtain BCDC permits to drill borings. Additionally, the Navy doesn't want to set a precedent of requiring BCDC approval at all Naval facilities around San Francisco Bay. The Navy will prepare a position paper. Drilling for CTO 107 is to continue regardless of whether or not permits have been issued by the BCDC. Ground-water monitoring wells located more than 100 feet from the shoreline will be installed first. The DHS has no objections to this position at this time.

#### Item 3 on Agenda

The Navy mailed the well decommissioning work plan, with DHS comments, to PRC last Friday. PRC will address these comments and mail the work plan back to the Navy within 2 weeks of their receipt. (PRC received the DHS comments via fax on March 1, 1991)

#### Item 4 on Agenda

The Navy has received RWQCB comments on the sampling plan for Phase 4 of the RI/FS. The DHS said that Fish and Game will have their comments on the sampling plan completed by this Friday (March 1, 1991). Phase 4 involves sampling at the estuary and Seaplane Lagoon. A



meeting will be scheduled (tentatively March 14, 1991) to resolve conflicts on comments before the Navy prepares the scope of work.

**Item 5 on Agenda**

Hydrocarbons were detected at the AIMD site during construction. The DHS requested removal action and an EE/CA needs to be prepared. A scope of work for this project has been prepared by the Navy. PRC will receive this scope of work in about a week.

**Item 6 on Agenda**

The Navy has not yet hired a person for the public affairs position; applicants are currently being reviewed. The DHS is recommending that a CAC meeting be held soon, and that a one-page fact sheet be prepared. PRC and NAS Alameda are preparing a display board.

Six feet of floating product has been found on the water table beneath Hunters Point. The Navy may be issuing a new scope of work soon to investigate the floating product.

The next Progress Review Meeting will be combined with a TRC meeting. This meeting has been scheduled for April 16, 1991, 10:00 AM at NAS Alameda. (Based on a phone call from Bella Dizon on 6 March 1991, the meeting is being rescheduled for April 19, 1991.)

# ATTENDANCE LIST

## PROGRESS REVIEW MEETING REMEDIAL INVESTIGATION/FEASIBILITY STUDY NAVAL AIR STATION ALAMEDA

26 FEBRUARY 1991

NAME	ORGANIZATION	PHONE NO.
BELLA G. DIZON	WESTON	244-2564
Mark Malinowski	DHS-Reg. 2	540-3816
Rico Duazo	RWCCB	464 0837
Kirk Switzer	PRC - EMI	916/852-8300
Steve Newton	JMM	(415) 975-3400
Jeff Johnson	PRC	(916) 852-8300
Randy Cate	NAS	(415) 263-3716
BERNIE EDRAZA	DHS	540-3942

SPECIAL MEETING  
NAS ALAMEDA  
10:00 AM, 11 FEBRUARY 1991

<u>Personnel Present</u>	<u>Affiliation</u>	<u>Phone Number</u>
Bella Dizon	WESTDIV	(415)244-2564
Larry	NAS Alameda	(415)263-3716
Mark Malinowski	DHS	(415)540-3816
Rico Duazo	RWQCB	(415)464-0837
Kirk Switzer	PRC Environmental	(916)852-8300
Jeff Johnson	PRC Environmental	(916)852-8300

Meeting Minutes

PRC presented their interpretation of the hydrogeology at the 1943-1956 Disposal Area and West Beach Landfill at NAS Alameda. The original hydrogeological interpretation presented two aquifers. The upper aquifer was the landfill material and the lower aquifer was the Merritt sand. The aquifers were separated by Bay mud which was considered an aquitard. Based on new information, PRC demonstrated that the landfill material and the Merritt sand are in the same aquifer. Based on the new interpretation, it was recommended that 30 intermediate wells be eliminated from the drilling program for CTO 107. It was also recommended that 2 deep wells (screened over the lower Merritt sand) be added to the drilling program, all continuous coring be eliminated, and the installation of conductor casing be eliminated at the east end of the landfills. The DHS and RWQCB tentatively accepted the hydrogeological interpretation that was presented.

PRC said that data from aquifer tests and surface geophysics would aid in interpreting the subsurface hydrogeology. The DHS agreed. Four aquifer tests have already been approved for this project; however, the details of the aquifer test program have not been prepared. Details for these tests will be provided by PRC at a later date. It was agreed that at least one test should be conducted in the Merritt sand, and one test should be conducted in the Bay mud sand. The DHS said that using well points for observation wells is acceptable. The DHS also pointed out that a tidal influence study should be conducted before the aquifer test. The aquifer tests and geophysical survey need to be conducted as soon as possible to help evaluate whether or not the 30 intermediate wells should be eliminated from the program.

The DHS will investigate the recommendation of eliminating conductor casing on the east side of the landfill. Continuous coring, however, will be required and cannot be eliminated from the drilling program.

PRC will prepare a hydrogeological report which will describe the hydrogeology at the landfills. The report will also address the aquifer tests and geophysical surveys that are proposed for the sites. The due date for this report is March 11, 1991. A second report, due March 25, 1991 will evaluate the well development technique that was used for the ground-water monitoring wells installed during CTO 85. Two development techniques that will be addressed include bailing and jetting.

While the final determination to eliminate the 30 intermediate wells is being made, J. M. Montgomery can continue with the existing program. The remaining 34 shallow wells and 4 deep wells will be drilled. The 4 intermediate wells that were not eliminated from the program were at locations M-01, M-20, M-22, M-27. The BCDC has not yet responded to the Navy concerning the drilling of wells within 100 feet of the shoreline. The DHS said they will try to get the approval process moving faster.

In a separate topic, The DHS said they will require 3 replicates per sampling location at the Seaplane Lagoon. The DHS is still waiting on comments from Fish and Game concerning the sampling plan. All comments from other agencies will be collected by the DHS and given to the Navy by February 20, 1991.

The Alameda County Flood Control and Water Conservation District (Zone 7) has accepted the proposed method of abandonment for the existing ground water monitoring wells at the 1943-1956 Disposal Area and the West Beach Landfill (CTO No. 95). They sent a confirmation letter to the Navy on 5 February 1991.